

Abstract of the Disclosure

5 A reluctance motor with a stator (1) which has a three-phase current stator winding for generating a rotary magnetic field and a rotor (3) which is located on the shaft (2) and which is made primarily of a ferromagnetic material. The rotor is formed of a predetermined number of angular regions of the same peripheral angle which adjoin one another in a circumferential direction and preferably have at least one pair of flux guidance regions (10, 11) facing the stator (1), with flux guidance properties which differ in the main direction of the rotary field.

According to a first feature, the stator (1) has a preset number of angular regions of the same peripheral angle which adjoin one another in the circumferential direction, preferably having at least one pair of flux guidance regions (13, 14) facing the rotor (3) with flux guidance properties which differ in the main direction of the rotary field, and the number of angular regions (12) on the stator (1) differ from the number of angular regions (9) on the rotor (3) by an integral multiple of the pole number, preferably the simple pole number, of the three-phase current stator winding. Alternatively or together with the first feature, according to a second feature, the flux guidance regions (10, 11) and connecting elements for connection to shaft (2) of the reluctance motor (3) enclose a flux guidance rotor (27) which floats on shaft (2) via bearings and which is made of ferromagnetic material for returning of the lines of force of the rotary field.

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